BRUHAT BANGALORE MAHANAGARA PALIKE

DASARAHALLI ZONE

5 (5)

Name Of Work : Detailed Estimate for the Work Of Drilling of Borewell, Providing Pumping Machinery and Pipe Line For Supply of Water to Chikkasandra, Medarahalli Abbigere, Kammagondanahalli in Ward No-12, Shetty Halli Sub-Division,

EST COST:- *7000000*

Sl. No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	Geophysical investigation of site for sinking borewell for supply drinking water to the habitation either through the hand pump M.W.S or P.W.S.S by vertical electrical sounding by adopting venner or schlumberger's method including reconnaissance survey of geological formation Geophysical investigation of existing ground water infecundity its quality, quantity & acceptability of the user indicating the location of site recommended depth of casting pipe required to seal the top in consolidated formation including an extra depth of 1.00 Mtr in consolidated formation of proper scatting of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation technical personal and labour etc.,PRE- Bangalore Circle-2011-12, Page No-43, Item No-9.4 1) Vigneshwara layout 2) Rainbow School Paych 3) Halmuniyappa layout 4) Vishwesh waraich enclave 5) Near kaivaranarayana Shet temple 6) Raghvendra layout 7) chikkasandra village 8) Shivanjappa layout 9) Kotemuniyappa layout 10) Chikkasandra colony Abbigere								
		Each	10				10	1900.00	19000
2	Sinking borewell of 165 mm dia clear using super fast hydraulic Rig of capacity 250 PSIG and Above 900 CFM & above in all Strata including over burden upto 20 mtrs fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of Rig and Supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding cost of casing pipes, collars and cap, etc., PRE- Bangalore Circle-2011-12, Page No-41, Item No-9.1								
	a) 0.00 to 50.00 mtrs	Rmt	10			50	500.00	287.00	143500
	b) 50.00 to 100.00 mtrs	Rmt	10			50	500.00	379.00	189500
	c) 100.00 to 150.00 mtrs	Rmt	10			50	500.00	422.00	211000
	d) 150.00 to 200.00 mtrs	Rmt	10			50	500.00	464.00	232000
	e) 200.00 to 250.00 mtrs	Rmt	10			50	500.00	513.00	256500
	f) 250.00 to 300.00 mtrs	Rmt	10			50	500.00	550.00	275000
	g)300.00 to 310.00 mtrs	Rmt	10			10	100.00	550.00	55000
3	Supply of ISI mark 175mm nominal bore,plain end steel casing pipe- grade of steel Fee 410 of wall thickness 5.4 mm thick confirming to IS 1387/1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5 to 7 mts. Both ends threaded confirming to IS 554/1985, one end fixed with a socket confirming to IS 4270;2001 and the other end with screwed pipes.All pipes shall be reasonably free from defects. The tube shall be reasonably straight should be with ISI marking, weighing 25.10kg/mtr. (Inclusive of all taxes) (PRED,2010-11 Page NoII item No-54)) 53								
	a) Casing Pipe	Rmt	10			45	450.00	1325.00	596250
4	Additional rate on Item No. 2 is allowed for drilling in **over burden** and following casing pipes beyond 20 mtrs, rate at 15% and beyond 30 mtrs 30% on basic rate of Rs.287 is allowed (PRED,2010-11 Page No 38 item No-9.4)								
	a) Above 20 mtrs and Upto 30 mtrs at	Mtrs	10			10	100.00	43.05	4305
	b)above 30 mtrs	Mtrs	10			10	40.00	86.10	3444
5	Providing 175 mm dia **MS Collar** (RDED SR page ii item55)								
		Each	10	8			80.00	150.00	12000
6	Providing 175 mm dia **MS Cap** (As pe RDED SR page ii,Item-54)								
		Each	10	1			10.00	100.00	1000

Executive Engineer
Bangalore Mahanagara Palike
Dasarahalli Division, Bangalore

Sl. No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
7	Supplying and delivery at site brand new texmo / innoval / Lubi / Sabar / Atalanta / Calamal make suitat or vertical installation in 150mm dia borewell comprising of single stage of multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage **submersible induction motor** suitable for operation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required accessories such as suction casing suction strainers sand guard Non return value etc., complete. The pump and motor shall form an integral unit with all the required fittings 15.00 HP 30 stage SE Approved Rate Letter No:2133 date:30/07/2010 (to be enclosed)								
		No.	10			1	10.00	52000.00	520000
8	Supplying and Drawing 3 Core Flat PVC Shelted Submerisible Pump Cable Manufactured With Electrolytic grade copper with flexible copper conductor confirming to table 3 class 5of IS 8130-1984 and Virgin PVC insulation and Sheeated Suitable for working Voltage Upto 1100 Volts as per Page No:49 Iten No 29C/1 PREE- SR 2011-12								
		Mtrs	10	525			5250.00	151.00	792750.00
9	Supplying and fixing **50mm Non Return Vavle** of vertical type of apporved make including cost of all materials labour HOM of equipment with all leads complete as per Speciifcation (As per Rate approved by SE, RDED, Letter No.2081/2010-11 Dt : 28-07-2010)								
		Nos	10				10	1530	15300
10	Supplying and fixing 50mm **GM Gate valve (As per Rate approved by SE, RDED, Letter No.2081/2010-11 Dt : 28-07-2010)**								
		Nos	10				10	1430	14300
11	Supplying and fixing 160mm **Borewell cap with clampset (As per Rate approved by SE, RDED, Letter No.2081/2010-11 Dt : 28-07-2010)**								
		Nos	10				10	690	6900
12	Supplying and fixing 50mm **GI Union (As per Rate approved by SE, RDED, Letter No.2081/2010-11 Dt : 28-07-2010)**								
		No	10	1			10.00	245.00	2450
13	Supplying and fixing 50mm **GI Elbow (As per Rate approved by SE, RDED, Letter No.2081/2010-11 Dt : 28-07-2010)**								
		No	10	3			30.00	120.00	3600
14	Supplying and fixing 50mm **GI coller Heavy duty**								
		No	10	46			460.00	170.00	78200
15	Supplying and delivery at site brand new star / Essen / Lotus / Sun shines / Adarsh / GK Controls best indigenous make combined energy meter cum control panel board unit of size 1200x600x350 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3ph, 50 Hz, 380/440 volts, AC supply with spring loaded latch, locking device with a key ribs should be provided inside the door canopy apron and louvers ventilators shall be provided the combined energy meter cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 volts AC supply shall be consists etc, complete the panel board shall be consists etc., complete the panel board shall be fabricated on single unit in the above components panel board for suitable pumpset with Star Delta Starter out door type 10 HP to 15 HP (As per Rate approved by SE, RDED, Letter No.2133/2010-11 Dt : 30-07-2010)								
		Nos	10				10	10000.00	**100000.00**
16	Supplying and fixing 50 mm GI pipes 'C' class heavy duty for erection of submersible pumpset (As per BWSSB Store Issued Rate)								
		Mtrs	10	260			2600.00	402.75	**1047150**
17	Erection of combined panel board and meter unit with necessary materials and labour including providing cement concrete foundation bed cont door type etc., complete (As per Rate approved by CE, RDED, Letter No.8650/2003-04 Dt : 8-3-2004)								
		Nos	10				10	475	**4750.00**
18	Supplying of TPST with rewireable porcelain Channels in SM encloser 15/32 amps P-346,I-1,i(a),BWSSB SR 2008-09								
		Nos	10				10	1350	**13500.00**

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Sl. No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
19	Supplying and fixing 500x500x65mm polished wood board made up not less than 15mm thick plank h front plank one end provided for olding at other end fixing the same of the valve using through bolts and nuts. P-346,I-2(f),BWSSB SR 2008-09								
		Nos	10				10	275	2750.00
20	Supplying and fixing LED Type panel board indicating lamp with required colour Suitable for 220 V AC 50Hz 12/24 V DC Group 'B' P-354,I-35(b),BWSSB SR 2008-09								
		Nos	10		3		12	350	4200.00
21	Suppling and drawing each PVC insulated 650/100V grade wire in the Condut(Open or Concealed sysytem of wiring) 7/20 or 7/36 copper wire P-332,I-20,ii(d),BWSSB SR 2008-09								
		Mtrs	10	10			100	25	2500.00
22	Suppling , fixing and wiring heavy duty low voltage capacitors conforming to IS 2834,3 phase 400/440 volts grade for power factor improvement of rotating machinarery capacitor in KVAR rating Nos 2 KVAR Capacity P-354,I-34(a),BWSSB SR 2008-09								
		Nos	10				3	350	1050.00
23	Supplying and fixing miniature Circute breakers on exisiting MCB distribution boards using necessary fixing materials and wiring complete as reuired P-350,I-13(E,a),BWSSB SR 2008-09								
		Nos	10				10	1075	10750.00
24	Supplying, fixing, wiring, earth electrode for grounding conduits, LC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charcoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduct etc., is to be established through GI wire of size as per ISI specification 7.3.3 IS 732 using 12mm dia bolts, nuts, washers and check nuts, etc, the pipe shall have 16 throught holes of 122 mm dia P-377,I-7,BWSSB SR 2008-09								
		Nos	10				10	1500	15000.00
25	Supplying and fixing class A(medium duty) GI pipe of wall thickness not less than 3.25mm on pole								
		Nos	10	10		M.R	100	220	22000.00
26	Supply 1.1 KV class UG cable from nearest BESCOM pole to panel board including earth work and road restoratio 4 core 16 sqmm,P-378,I-10(d),BWSSB SR 2008-09								
		Mtrs	10	35			350	150	52500.00
27	Labour charges for laying 1.1 KV class UG cable when supplied by agencies in existing trenches GI pipe/stoneware pipe/on wall/on pole as required , P-379,I-11(a),BWSSB SR 2008-09								
		Mtrs	10	35			350	5	1750.00
28	Digging of terch of 0.6 M deepX o.50 M wide refilling the trench to the required level and consolidating etc. complete, P-379,I-12(b),BWSSB SR 2008-09								
		Mtr	10	30			300	50	15000.00
29	Supply and fixing LT cast iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps,bolts, nuts, washers etc. P-380,I-16(b),BWWSSB SR 2008-09								
		Nos	10				10	240.00	2400.00
30	Supplying and fixing of Porcelain fuse channel with cut-out on existing / new wooden panel using necessary nuts,bolts and washers etc. complete P-32,I-3(b),PWD ELECTRICAL SR 2010-2011 32 Amps							100 × 6000	
		Nos	10	6			60	219.00	13140.00
30	BESCOM Deposit charges and misc	L.S	10				10.00	14000.00	140000.00
31	KSRB 2-2.2: Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1 (b) / 2.3.5 (P.5/I.2.4 PW, P & IWTD -SR 2010-11)								
		Cum	1	7960	0.60	0.75	3582.00	190.80	683346.00

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Sl. No.	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic Rate	180.00							
	Area Weightage 6%	10.80							
	Total	190.80							
32	Providing and Installing at site of work P.V.C.pipes including cost of pipes and specials and labour, including lowering into trenches, laying true to line,level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15 cms with gravel or selected earth available from the excavation etc.complete PVC pipes of 6 kg/cm2 75 mm dia (Page no.14 Item no.3.4.2 (b),ofPRE SR 2011-12								
		Rmt	1	7295			7295	117.00	853515.00
				-1335			7960.0		
33	Supplying and fixing 50 mm GI pipes 'C' class heavy duty (As per BWSSB Store Issued Rate)								
		Mtrs	10	60			600.00	402.75	241650
33	KSRB 2-4: Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5m. including cost of all labour complete as per specifications. (P.6/I.2.11 PW, P & IWTD -SR 2010-11)						3582.0		
		Cum					7295	51.41	375036.00
	Basic Rate	48.50					3309.79		
	Area Weightage 6%	2.91							
	Total	51.41							
34	Transportation of pumping machineres PRE SR 2011-12 PG 51/10.3.19						10	850	8500
35	Erection of pumping machineres PRE SR 2011-12 PG 51/10.3.20						10	850	8500
36	Miscellaneous and rounding off								6860
								Total	7000000

RUPEES SEVENTY LAKHS ONLY

Total 70,00,000/-

CERTIFICATE

1) **The work spot has been inspected and the work is found necessary.**
2) **This estimate is prepared as per C.S.R. of 2011-12.**
3) **The provisions were made in this estimate are necessary and adequate.**
4) **This works come under B.B.M.P limits.**

Asst Engineer
Ward no 12

Asst. Exe. Engineer
Shetty halli Sub-Division

Exe. Engineer
Dasarahalli-Division,
B.B.M.P

A/S

JC(DH) AS 423/12-13 Dated 11/10/2012
Rs 70.00 lakhs (Rupees Seventy Lakhs only)
Page No-41
Sl. No. 423

ಸಂ. ಮು.ಅ/ದ.ವ/ತಾ.ವ/54/2012-13 ದಿನಾಂಕ : 17-10-2012.
ರೂ. 70.00 ಲಕ್ಷಗಳು, ಮಾತ್ರ ಮಿಸ್ಲೇನಿಯಸ್ ಲಕ್ಷಗಳಿಗೆ
ಮಾತ್ರ.
ರಂತೆ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ಬಾಡಿಕೆ ಕ್ಷೇತ್ರದ ನಿಬಂಧನೆಗಳ ಅಧಿಸೂಚನೆ ಸಂಖ್ಯೆ ನಿಅ-ಆಗಿನಿಪ್ರ/98/2012-13 ದಿ: 05/09/2012.